Worksheet for Planning Lot & Sublot Distribution of QC/QA Superstructure Concrete in English Units

Contract No.	Total Plan Quantity of QC/QA Superstructure Concrete	yd ³
Number of CMD's required		

First (CMD to be used, _	_ of	Second	CMD to be used,	of
Construction Phase	Structure No.	Plan Quantity yd ³	Construction Phase	Structure No.	Plan Quantity yd ³

$$\Sigma = \underbrace{yd^3}_{\div 150.0 \ yd^3} \qquad \qquad \Sigma = \underbrace{yd^3}_{\div 150.0 \ yd^3}$$

- 1. If decimal portion is less than 0.434, round the result down to nearest whole number to determine the number of Lots. The last Lot of a CMD will contain 3 or 4 Sublots
- 2. If decimal portion is equal to or greater than 0.434, round the result up to the nearest whole number to determine the number of Lots. The last Lot of a CMD will be less than the standard quantity, consist of 2 or 3 Sublots, and likely will have one Sublot of partial size.
- 3. An individual Sublot cannot contain less than 15.1 yd³ or more than 65.0 yd³.
- 4. The last Lot for a CMD is required to have at least 2 Sublots, but never more than 4 Sublots.

				CM	1D of					
Sublot		Quantities (yd ³) within Lot Nos.								
Nos.	1	2	3	4	5	6	7	8	9	10
1										
2										
3										
4										
Σ										

				CM	D of	— within L				
Sublot Nos.				Quanti	ties (yd ³)	within L	ot Nos.			
Nos.	1	2	3	4	5	6	7	8	9	10
1										
2										
3										
4										
Σ										

INDIANA DEPARTMENT OF TRANSPORTATION MATERIALS AND TEST DIVISION

RANDOM SAMPLING FOR SUPERSTRUCTURE CONCRETE (ENGLISH UNITS)

Contract No	Str. No	_ Construction Phase CMD _	of
QC/QA Superstruct	ture Quantity for Phase (z)) yd ³	
Phase Construction	Dimensions: Length (l) _	ft, Width (w) ft	
Average Depth (d)	$= \underbrace{z \times 27}_{l \times w} = \underline{\qquad} \text{ft}$		
Lot No Lo	t Size yd³ Numbe	er of Sublots	

		Cumulative			Random	Random Distance		olot ation
Sublot No.	Sublot Size (yd ³)	Quantity of Ph/Str (yd³)	Remainder Quantity (yd ³)	Random No.	Quantity Within Sublot (yd ³)	From Start of Ph/Str (ft)	Begin (ft)	End (ft)
	A	В	z-B	С	D = AxC	(D-A+B)27 w x d		27B w x d
1								
2								
3								
4								

^{*} Sublot information that carries over to the next construction phase or structure placement.

-11-	Acceptance sample location will be obtained during next construction phase or structure placement.